

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Mike Kehoe
Governor

Kurt U. Schaefer
Director

May 30, 2025

**FINANCIAL ASSISTANCE CENTER
FINDING OF NO SIGNIFICANT IMPACT/ENVIRONMENTAL ASSESSMENT**

TO: ALL INTERESTED GOVERNMENT AGENCIES AND PUBLIC GROUPS

In accordance with procedures for environmental review found at 10 CSR 60-13.030, a review has been performed on the proposed action below:

Project Identification: Drinking Water System Distribution and Storage Improvements

Applicant: Public Water Supply District 1 of Pike County

Project No: DW291231-02

County: Pike

State: Missouri

Estimated Project Amount: \$5,400,290

Potential State Revolving Fund (SRF) Amount: \$5,400,290

COMMUNITY DESCRIPTION:

Location: The water system is located in eastern Missouri in Pike County. The county seat, Bowling Green, is approximately 75 miles northwest of St. Louis, Missouri. The county borders Illinois along the Mississippi River.

Population, Present and Projected, and Design Year: The water supply district serves a population of approximately 6,655 people with an average daily demand of 421,000 gallons per day (gpd) and a daily peak water demand of 631,500 gpd. The water supply district estimates a 1.3 percent average future growth based on projections. The 20-year growth forecasts a future population of approximately 8,617 people with an average daily demand of 545,093 gpd and a peak daily demand of 817,640 gpd.

Current Methods of Supply, Storage, and Distribution: The district purchases approximately 90 percent of their water from the Clarence Cannon Wholesale Water Commission (CCWWC), and the remaining 10 percent is purchased from the City of Louisiana, Missouri. The district maintains six storage units: one 45,000-gallon ground storage tank, two 50,000-gallon elevated tanks, one 50,700-gallon ground storage tank, one 100,000-gallon elevated tank, and one 200,000-gallon elevated tank. The distribution system is divided into two isolated sections with four pumping facilities. An additional two pumping facilities owned by the City of Louisiana serve as points of connection between the city and the district.



PROJECT DESCRIPTION:

Distribution Improvements: The project will consist of the construction of a new booster pump station near the City of Curryville. It will also consist of piping modifications at the existing Highway 54 booster pump station.

Water Storage Improvements: The project will consist of the construction of a new 500,000-gallon elevated storage tank.

Purpose and Need: The district needs additional water storage capacity to keep up with current and future demands. The increased capacity will provide consistent, safe drinking water over the 20-year design period as demand increases. The new booster pump station and modifications to the existing Highway 54 booster pump station will improve low pressures experienced at the existing pump station during periods of high demand.

Design Factors: Work will be performed in right-of-ways, easements, and on property owned by the water system. Construction activity will consist of boring, trenching, digging, movement of machinery over the surface, and consisting of new structures. The design standards used in this project are based on the 2013 Minimum Design Standards for Missouri Community Water Systems.

The total construction cost for the proposed improvements including engineering and administrative costs is approximately \$5,400,290.

ALTERNATIVES CONSIDERED

Storage Alternatives

- No Action (Not Selected): This alternative would require the district to continue to operate and maintain the existing system to provide water service to its customers. This would not address the high turnover rate or need for additional capacity to accommodate existing and future customers.
- Action Alternative No. 1 (Selected): This alternative will see the construction of a new 500,000-gallon elevated storage tank.

Distribution Alternatives

- No Action (Not Selected): This alternative would require the district to continue to operate and maintain the existing system to provide water service to its customers. This would not address the low pressures experienced at the Highway 54 station.
- Action Alternative No. 2 (Not Selected): This alternative would see the district install approximately 6 miles of 16-inch diameter piping from Curryville to the Highway 54 booster pump station. This alternative was deemed economically unviable.
- Action Alternative No. 3 (Selected): This alternative will see the construction of a new booster pump station near Curryville. It will also see modifications to the Highway 54 station.

REASONS FOR SELECTION OF PROPOSED ALTERNATIVES:

Action alternatives Nos. 1 and 3 were chosen over the other alternatives as they provide the most financially feasible improvements to help with storage capacity and improve pressures throughout the district.

ENVIRONMENTAL IMPACT SUMMARY

1. Primary Impacts:

- a. Construction: Blowing dust, temporary surface disruption, and noise from construction equipment will occur during construction, but these impacts are expected to be minor and temporary in nature. Best management practices for erosion control measures are part of the project specifications.
- b. Environmental: Environmental impacts of the project are expected to be temporary in nature.
- c. Financial: The current rates are \$59.00 per 5,000 gallons. The district will evaluate rates as part of the project. Significant rate increases are not expected but could raise slightly.

2. Secondary:

- a. Population Impacts: This project is designed to serve the existing water system. No relocation of people or structures is anticipated.
- b. Land Use and Trends: No significant change in land use trends is expected to result from this project.
- c. Environmental: No significant secondary environmental impacts are expected as a result of this project.

3. Mitigation Measures Necessary to Eliminate Adverse Environmental Effects: Noise, dust, and erosion normally associated with construction will be minimized by good engineering and construction practices. Restoration of disturbed areas along the water mains will be undertaken after construction is complete. Any debris such as demolition and construction waste, trees, or brush, will be disposed of properly.

The Gray and Indiana bats are included on the federal and state-listed endangered species, and Northern Long-Eared bats are included on the federal-listed threatened species list and may be present in the area. Caves known to harbor the bats are not to be entered.

Based on the US Fish and Wildlife response, as long as tree clearing is completed between November 1st and March 31st, no listed bats will be impacted. No trees are expected to be cleared with the project.

4. Irreversible and Irretrievable Commitment of Resources: Fuel, chemicals, and construction materials will be irretrievably committed to the project. Future funds will be committed to the operation and maintenance of the water system.

5. Positive Environmental Effects to be Realized from the Proposed Project: The proposed improvements to the district's system will help provide better water quality, improve operations, and provide more reliability throughout the system.
6. Reasons for Concluding there will be No Significant Impacts: The proposed project will have a positive impact on water quality and reliability. Population densities and land use trends will not be significantly affected. Where minor impacts will occur, appropriate mitigation measures are planned.

PUBLIC PARTICIPATION

1. Public Involvement: The district conducted a public meeting to discuss the proposed project improvements, the engineering alternatives, and environmental impacts of the project on May 21, 2025, at the water district's office located at 1106 West Adams Street, Bowling Green, Missouri 63334. Notice of the meeting appeared on April 18, 2025, in the Pike County News, a weekly newspaper of general circulation in the region.
2. Public Opposition or Opinions: No adverse comments on the proposed project were received.

COORDINATION AND DOCUMENTATION WITH OTHER AGENCIES AND SPECIAL INTEREST GROUPS

1. Facility Plan:
 - Preliminary Engineering Report dated July 2022, Amendment #1 dated February 2023, Amendment #2 dated April 2024
 - Environmental Information Document dated May 2025All documents were prepared by Four Points Land Surveying & Engineering, Inc.
2. Federal: X U.S.F.W.S. X Corps of Engineers
3. State:
 - a. Missouri DNR – State Historic Preservation Office
 - b. Missouri DNR – Division of State Parks
 - c. Missouri DNR – Missouri Geological Survey
 - d. Missouri Office of Administration – Federal Assistance Clearinghouse
 - e. Missouri Department of Conservation

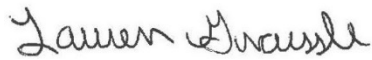
Historical and Cultural Notices

- a. Missouri Department of Natural Resources – State Historic Preservation Office
 - b. Indian Tribes
4. Consulting Engineer: Four Points Land Surveying & Engineering, Inc.
17 Northport Plaza
Hannibal, MO 63401

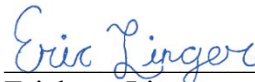
This action is taken on the basis of a careful review of the facility plan on file in the office of the Department of Natural Resources' Financial Assistance Center at 1101 Riverside Drive, Jefferson City, MO 65101. These are available for public review upon request Monday through Friday, 8:00 a.m. to 5:00 p.m. This agency will not take any administrative action on this project for at least 30 calendar days from the date of this document. Persons wishing to comment on the above environmental decision may submit comments to Erickson Linger, Department of Natural Resources, Financial Assistance Center, Jefferson City, MO 65102-0176, during this period. Thank you.

Sincerely,

FINANCIAL ASSISTANCE CENTER



Lauren Graessle, P.E.
Director



Erickson Linger
Assistant Engineer

LG:elc

Attachments

May 30, 2025

Date

DISTRIBUTION

Department of Conservation
P.O. Box 180
Jefferson City, MO 65102

Conservation Federation of Missouri
728 West Main Street
Jefferson City, MO 65101

U.S. Environmental Protection Agency
c/o Carter Tharp – WWPD/SRFB
Tharp.carter@epamail.epa.gov

Missouri Department of Natural Resources
Missouri Geological Survey
Environmental Geology Section
P.O. Box 250
Rolla, MO 65402-0250

Missouri Department of Natural Resources
Division of State Parks
State Historic Preservation Office
P.O. Box 176
Jefferson City, MO 65102-0176

U.S. Fish and Wildlife Service
Ecological Services
101 Park DeVille Drive, Suite A
Columbia, MO 65203-0057

National Park Service
Midwest Region
mwro_compliance@nps.gov

USDA Rural Development
601 Business Loop 70 West
235 Parkade Center
Columbia, MO 65203

Gilmore and Bell, P.C.
c/o Shannon Walsh Creighton
One Metropolitan Square
211 North Broadway, Suite 2000
St. Louis, MO 63102-2741

SRF File DW291231-02

Pike County Public Water Supply District No. 1
c/o Janice Luebrecht
Office Manager
1106 West Adams Street
Bowling Green, MO 63334

Four Points Land Surveying & Engineering, Inc.
c/o Kyle Pociask, P.E.
17 Northport Plaza
Hannibal, MO 63401

Missouri Department of Natural Resources
Northeast Regional Office
1709 Prospect Drive
Macon, MO 63552-2602

Bowling Green Times
106 West Main Street
P.O. Box 110
Bowling Green, MO 63334

Environmental Protection Agency
Office of Federal Activities
Ariel Rios (2252A)
1200 Pennsylvania Avenue, N.W.
Washington, DC 20004

Council of Environmental Quality
722 Jackson Place, N.W.
Washington, DC 20503

U.S. Army Corps of Engineers
St. Louis District
1222 Spruce Street
St. Louis, MO 63103

Mark Twain Regional Council of Governments
42494 Delaware Lane
Perry, MO 63462

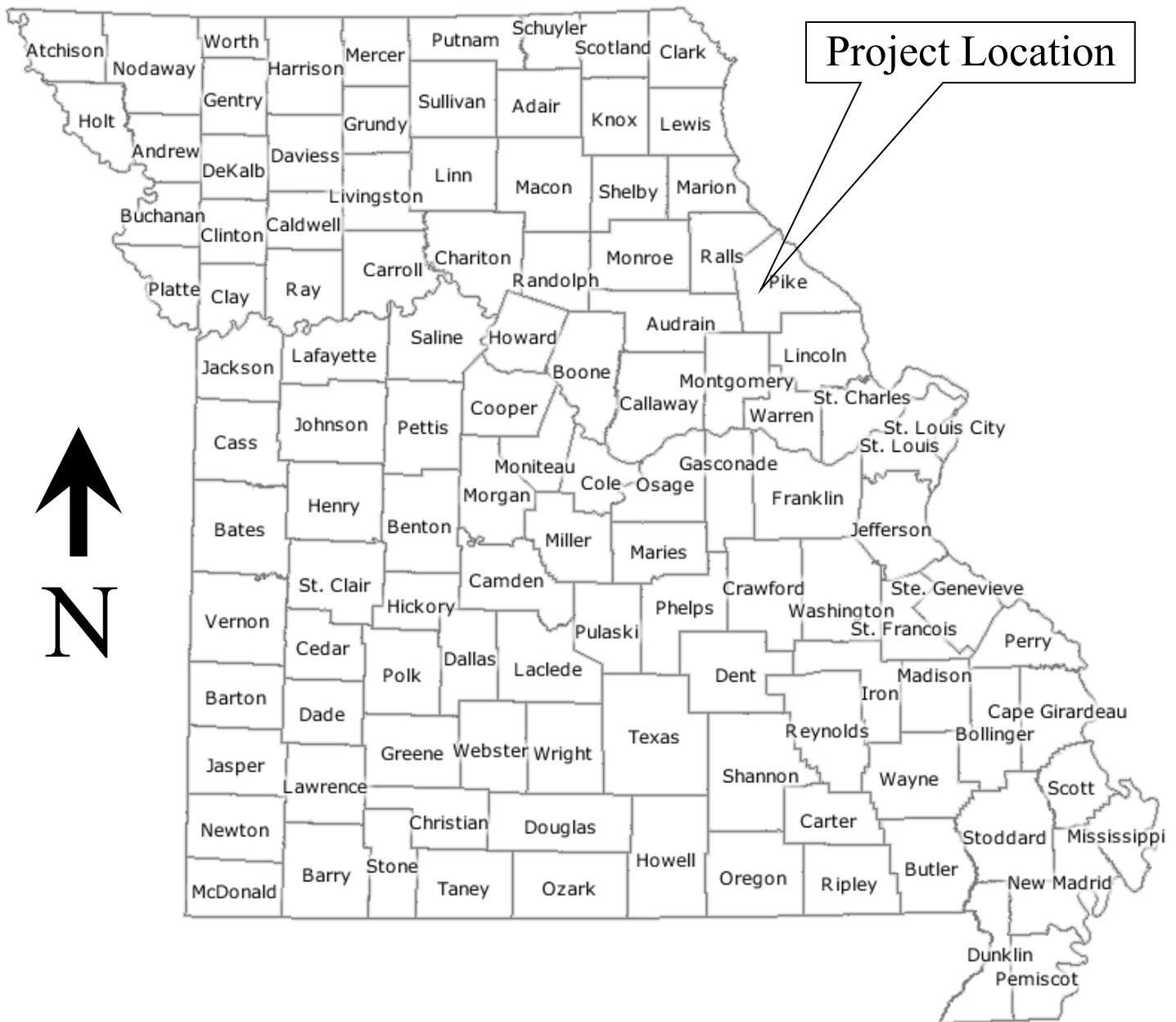
Lewis, Rice and Fingersh
c/o David Brown
500 North Broadway, Suite 2000
St. Louis, MO 63102

Attached Maps

1. State Map/Project Location Map
2. Project Location Map

State of Missouri

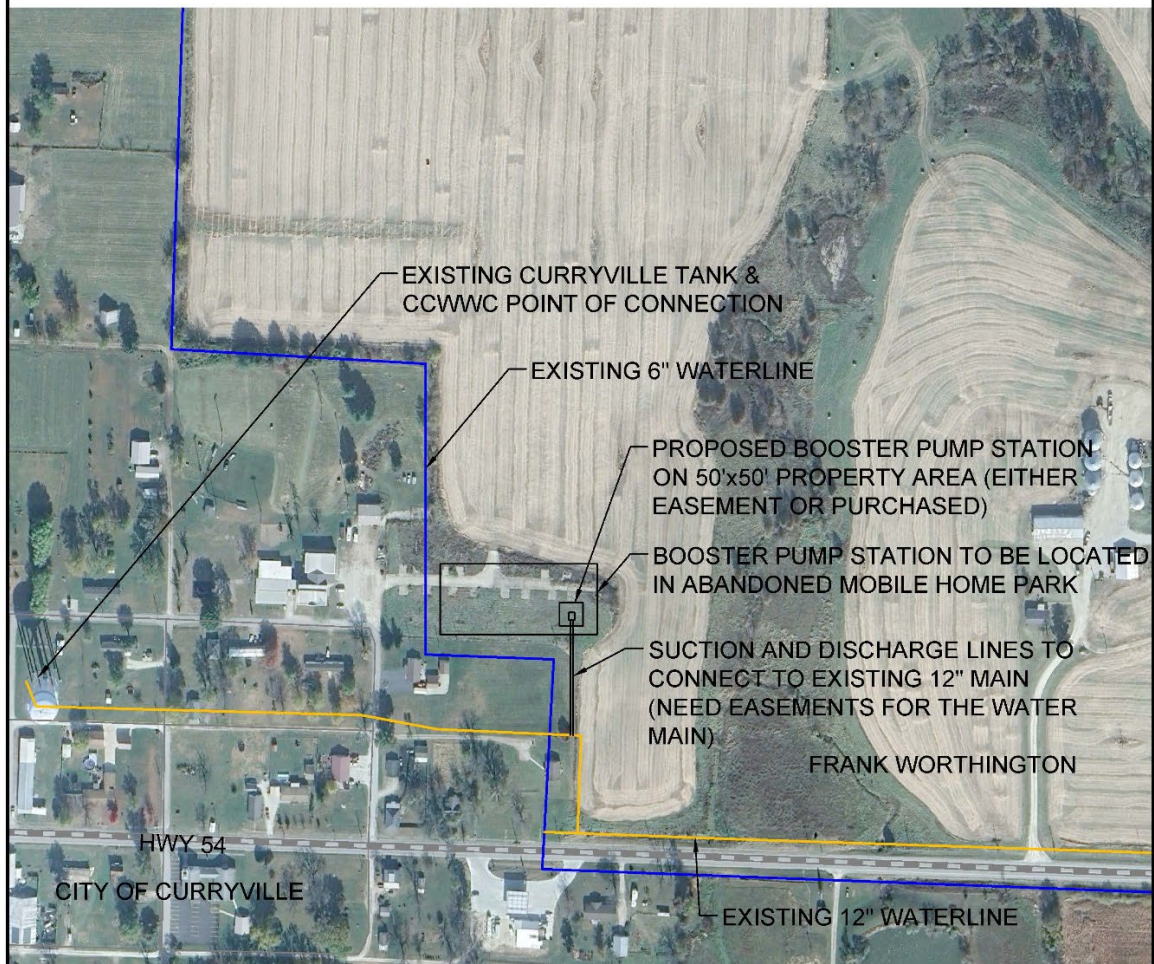
PWSD 1 of Pike County, MO



Project Location Map

EXHIBIT SKETCH

POTENTIAL LAYOUT FOR THE CURRYVILLE BOOSTER PUMP STATION
PWSD #1 OF PIKE COUNTY, MISSOURI



SHEET NO.	PROJECT NO.	DRAWING NAME	DRAWN	SURVEY	CHECKED
1 OF 1	23-0609	230609 Exhibit	KTP	N/A	KTP

EXHIBIT LAYOUT

PREPARED FOR:

**PWSD NO. 1 OF
PIKE COUNTY**



**FOUR POINTS LAND SURVEYING
AND ENGINEERING, INC.**

17 NORTHPORT PLAZA
HANNIBAL, MO. 63401

573-406-5533

MISSOURI CERTIFICATE OF AUTHORITY #2010035243

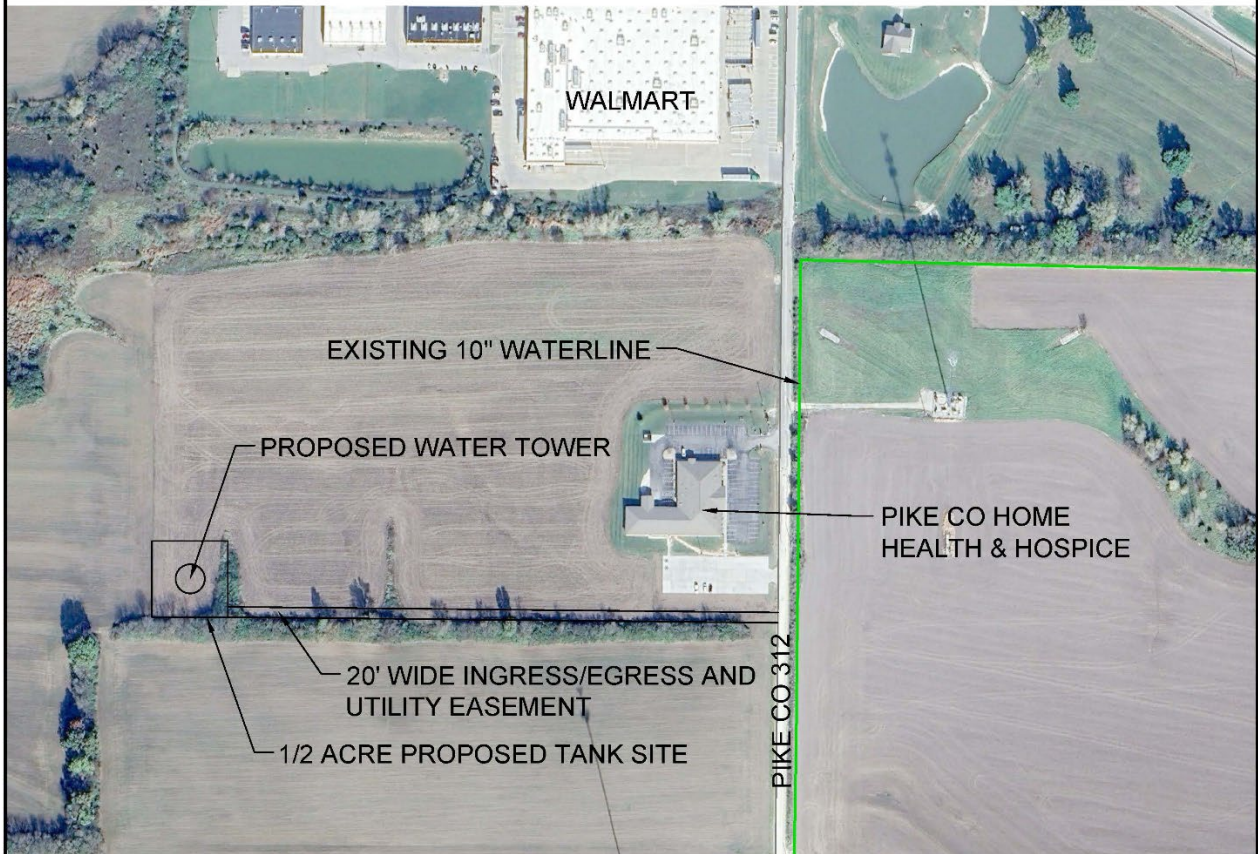
NOT TO SCALE



EXHIBIT SKETCH

APPROXIMATE LOCATION FOR PROPOSED ELEVATED TANK

PWSD #1 OF PIKE COUNTY, MISSOURI



SHEET NO.	PROJECT NO.	DRAWING NAME	DRAWN	SURVEY	CHECKED
1 OF 1	23-0609	230609 Exhibit	KTP	N/A	KTP

SITE SURVEY

PREPARED FOR:

**PWSD NO. 1 OF
PIKE COUNTY**



**FOUR POINTS LAND SURVEYING
AND ENGINEERING, INC.**

17 NORTHPORT PLAZA
HANNIBAL, MO. 63401
573-406-5533

MISSOURI CERTIFICATE OF AUTHORITY #2010035243

NOT TO SCALE

